

Form PTO-1449 (Modified)		Atty Docket No.	Serial No.
		02-103	10/766,297
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
(Use several sheets if necessary)		Applicant: Wang et al.	
		Filing Date	Group
		01/28/04	1621

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date If Appropriate
JH	2003/0185721 A1	10/02/03	Wang et al.	422	177	

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Country	Class	Sub-class	Translation	
						Yes	No

## OTHER ART

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.		
EXAMINER	<i>L. Dow</i>	DATE CONSIDERED	12/7/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement PTO-1449 (Modified)

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.  
Z:\SEC132\NAD\velocys109\IDS.4.wpd (IDS1449.FRM) (2/97)

<p>Form PTO-1449 (Modified)</p> <p><b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b></p> <p>AUG 31 2005 (Use several sheets if necessary)</p>	Atty Docket No.	Serial No.
	02-103	10/766,297
	Applicant: Wang et al.	
	Filing Date	Group
01/28/04	1754	

## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS							
Examiner Initial	Document Number	Date (MM/YYYY)	Country	Class	Sub-class	Translation	
						Yes	No

## **OTHER ART**

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.
WPF	International Search Report and Written Opinion; Application No. PCT/US2004/042065; mailed June 29, 2005.

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## **Information Disclosure Statement PTO-1449 (Modified)**

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.

Form PTO-1449 (Modified)		Atty Docket No.	Serial No.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		02-103	10/766,297
(Use several sheets if necessary)		Applicant: Wang et al.	
		Filing Date	Group
		01/28/04	1754



## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
JK	6,558,634 B1	05/06/03	Wang et al.	422	173	
JD	2002/0048541 A1	04/25/02	Schodel et al.	422	198	
JP	2003/0116503 A1	06/26/03	Wang et al.	210	660	
JP	2003/0219903 A1	11/27/03	Wang et al.	436	37	

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Country	Class	Sub-class	Translation	
						Yes	No
JD	39 26 466 A1	02/14/91	DE				X
JP	02/064248	08/22/02	WO				

## OTHER ART

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.	
JP	Invitation to Pay Additional Fees and Partial International Search Report for PCT/US2004/042065 mailed April 1, 2005.	

EXAMINER	<i>J. Pan</i>	DATE CONSIDERED
		12/17/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement PTO-1449 (Modified)

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.  
Z:\SEC132\NAD\velocys1109\IDS 3.wpd (IDS1449.FRM) (2/97)

NOV 15 2004

Sheet 1

Form PTO-1449 (Modified)

**LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Atty Docket No.

02-103

Serial No.

10/766,297

Applicant: Wang et al.

Filing Date

01/28/04

Group

1754

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
JP	2004/0156762	08/2004	Schuppich et al.	422	191	
	2004/0144421	07/2004	Parce et al.	137	14	
	2004/0143059	07/2004	Cabrera	524	800	
	2004/0141893	07/2004	Martin	422	198	
	2004/0136902	07/2004	Plath et al.	423	651	
	2004/0132832	07/2004	Espinosa et al.	518	716	
	2004/0131829	07/2004	Joseph et al.	428	166	
	2004/0131507	07/2004	Saitmacher et al.	422	111	
	2004/0131345	07/2004	Kylberg et al.	392	465	
	2004/0130057	07/2004	Mehrabi et al.	264	171.13	
	2004/0127352	07/2004	Jin et al.	502	322	
	2004/0125689	07/2004	Ehrfeld et al.	366	165.1	
	2004/0123626	07/2004	Caze et al.	65	17.2	
	2004/0107831	06/2004	Graham et al.	95	96	
	2004/0104010	06/2004	Kenny et al.	165	80.4	
	6,773,684	08/2004	Lesieur et al.	422	198	
	6,770,245	08/2004	Akporiaye et al.	422	82.12	
	6,769,444	08/2004	Guzman et al.	137	15.01	
	6,764,660	07/2004	Wiede, Jr. et al.	422	198	
	6,756,515	06/2004	Rende et al.	585	444	
	6,756,340	06/2004	Voskoboinikov et al.	502	328	
	6,755,211	06/2004	O'Connor et al.	137	554	
	6,749,817	06/2004	Mulvaney, III	422	200	
	6,749,814	06/2004	Bergh et al.	422	130	
	6,747,178	06/2004	Harston et al.	570	175	
JP	6,746,819	06/2004	Schmitz et al.	430	272.1	



Examiner Initial	Document Number	Date (MM/YYYY)	Name	Class	Sub-class	Filing Date if Appropriate
	6,746,651	06/2004	Ponzo et al.	422	220	
	6,675,875	01/2004	Vafai et al.	165	80.4	

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date (MM/YYYY)	Country	Class	Sub-class	Translation	
						Yes	No
JP	2004/067708	08/2004	WO				
	2004/067492	08/2004	WO			Abs.	
	2004/067444	08/2004	WO				
	2004/067160	08/2004	WO				
	2004/062792	07/2004	WO				
	2004/062791	07/2004	WO				
	2004/062790	07/2004	WO				
	2004/054696	07/2004	WO				
	2004/054013	06/2004	WO				
	2004/052941	06/2004	WO			Abs.	
	2004/052530	06/2004	WO				
	2004/052518	06/2004	WO			Abs.	
	2004/050799	06/2004	WO				
	2004/045760	06/2004	WO			Abs.	
	03/026788	04/2003	WO				
JP	1 311 341 B1	08/2001	EP				X

## OTHER ART

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.
JP	Besser, Ronald S. "New Directions in Reactor Design Through Miniaturization". 9/13/02, Tulane Engineering Forum.
	Ouyang et al. "Flexible Microreactor System for Chemical Research at Moderate and High Temperatures". Stevens Institute of Technology. Date is unknown

EXAMINER	<i>D. Dow</i>	DATE CONSIDERED
		12/17/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Information Disclosure Statement PTO-1449 (Modified)**

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.



Form PTO-1449 (Modified)		Atty Docket No.	Serial No.
		02-103	10/766,297
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT			
(Use several sheets if necessary)		Applicant: Wang et al.	
		Filing Date	Group
		01/28/04	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
✓	4,392,362	07/12/83	Little	62	514	
	4,516,632	05/14/85	Swift et al.	165	167	
	4,585,798	04/29/86	Beuther et al.	518	715	
	5,036,032	07/30/91	Iglesia et al.	502	260	
	5,309,637	05/10/94	Moriarty	29	890.054	
	5,317,805	07/07/94	Hoopman et al.	29	890.03	
	5,534,328	07/09/96	Ashmead et al.	428	166	
	5,611,214	03/18/97	Wegeng et al.	62	498	
	5,727,618	03/17/98	Mundinger et al.	165	80.4	
	5,733,839	03/31/98	Epinoza et al.	502	336	
	5,811,062	09/22/98	Wegeng et al.	422	129	
	5,858,314	01/12/99	Hsu et al.	422	211	
	6,075,062	07/13/00	Zennaro et al.	518	715	
	6,126,723	10/03/00	Drost et al.	96	4	
	6,129,973	10/10/00	Martin et al.	428	166	
	6,136,868	10/24/00	Culross et al.	518	700	
	6,216,343 B1	04/17/01	Leland et al.	29	890.032	
	6,192,596 B1	02/27/01	Bennett et al.	34	76	
	6,200,536 B1	03/13/01	Tonkovich et al.	422	177	
	6,220,497 B1	04/24/01	Benz et al.	228	118	
	6,230,408 B1	05/15/01	Ehrfeld et al.	29	890.039	
	6,262,131 B1	07/17/01	Arcuri et al.	518	700	
	6,313,393 B1	11/06/01	Drost	136	201	
	6,352,577 B1	03/05/02	Martin et al.	96	4	
✓	6,353,035 B2	03/05/02	Manzer et al.	518	700	

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
JP	6,368,997 B2	04/09/02	Herron et al.	502	302	
	6,381,846 B2	05/07/02	Insley et al.	29	890.039	
	6,415,860 B1	07/09/02	Kelly et al.	165	748	
	6,451,864 B1	09/17/02	Wang et al.	518	715	
	6,476,085 B2	11/05/02	Manzer et al.	518	715	
	6,488,838 B1	12/03/02	Tonkovich et al.	208	108	
	6,491,880 B1	12/10/02	Wang et al.	422	211	
	6,537,945 B2	03/25/03	Singleton et al.	502	327	
	6,540,975 B2	04/01/03	Tonkovich et al.	423	659	
	6,558,634 B1	05/06/03	Wang et al.	422	173	
	2002/0028853A1	03/07/02	Manzer et al.	518	713	
	2002/0188031 A1	12/12/02	Kibby	518	715	
JP	2003/0105171 A1	06/05/03	Subramanian et al.	518	715	

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Sub-class	Translation
						Yes No
JP	97/32687	12/09/97	WO			Abstract
	98/55812	10/12/98	WO			
	00/06295	10/02/00	WO			
	01/10773 A1	15/02/01	WO			
	01/12312 A2	22/02/01	WO			
	01/54807 A1	02/08/01	WO			
	01/95237 A2	13/12/01	WO			
	03/078052 A1	25/09/03	WO			
	0 904 608 B1	19/12/01	EP			
	01/12753 A1	22/02/01	WO			
	1 362 634 A1	19/11/03	EP			
JP	03/106386 A2	24/12/03	WO			

## OTHER ART

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.
	Matlosz et al : "Microreactors as Tools in Chemical Research"; Microreaction Technology; IMRET 5: Proceedings of the Fifth International Conference on Microreaction Technology. Date is unknown

Examiner Initial	Author, Title, Date, Pertinent Pages, etc.
AF	Srinivasn et al.; "Micromachined Reactors for Catalytic Partial Oxidation Reactions"; AIChE Journal; November 1997; Vol. 43, No. 11; pp. 3059-3069.
JT	TeGrotenhuis et al.; "Optimizing Microchannel Reactors by Trading-Off Equilibrium and Reaction Kinetics through Temperature Management; Prepared for presentation at IMRET 6 - 6 <sup>th</sup> International Conference on Microreaction Technology; March 2002.
	Wegeng et al.; "Compact Fuel Processors for Fuel Cell Powered Automobiles Based on Microchannel Technology"; Fuel Cells Bulletin No. 28, pp. 8-13. <del>Date is unknown</del>
JF	Rostami et al.; "Flow and Heat Transfer for Gas Flowing in Microchannels: a Review"; Heat and Mass Transfer 38 (2002) 359-367.
AF	Lekhal et al.; "Impact of Drying on the Catalyst Profile in Supported Impregnation Catalysts"; Chemical Engineering Science 56 (2001); 4473-4487.
JF	Waku et al.; "Effects of O <sub>2</sub> Concentration on the Rate and Selectivity in Oxidative Dehydrogenation of Ethane Catalyzed by Vanadium Oxide: Implications for O <sub>2</sub> Staging and Membrane Reactors"; Ind. Eng. Chem. Res., 2003, 42, 5462-5466.

EXAMINER	<i>V. Pau</i>	DATE CONSIDERED	12/7/08
----------	---------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#### Information Disclosure Statement PTO-1449 (Modified)

The identification of any reference is not intended to be, and should not be understood as being, an admission that such publication, in fact, constitutes "prior art" within the meaning of applicable law since, for example, a given reference may have a later effective date than first seems apparent or the reference may have an effective date which can be antedated. The "prior art" status of any reference is a matter to be resolved during prosecution.  
Z:\SEC132\NAD\velocys\109\IDS.wpd (IDS1449.FRM) (2/97)